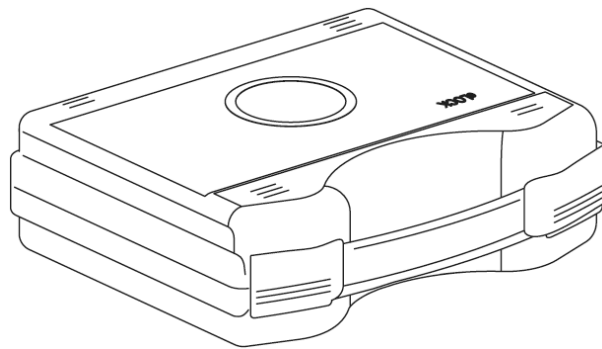


Operating instructions

Case External power supply
ES7781



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1 Introduction

About these instructions

These instructions contain important notes and information on operation of the external power supply (EPS).

- Read through the instructions carefully and attentively.
- Keep the instructions in a safe place and pass them on to each subsequent user of the EPS.

Explanation of the Symbols and Signal Words Used

 WARNING	Indicates risks which could result in fatal or severe personal injuries.
 CAUTION	Indicates risks which could result in fatal or severe personal injuries.
CAUTION	Indicates risks which could result in damage to property.
Note	Denotes information, notes and tips on optimum use of the instructions and the product.

Target group

These instructions are directed at competent personnel entrusted with the servicing, maintenance and disposal of trouble-free operation of a OPERTIS lock system and who has successfully completed suitable vocational training for these activities or has had the necessary appropriate experience.

OPERTIS Support

If you have any questions extending beyond the information provided in these instructions, please contact

OPERTIS GmbH
Prof.-Bier-Straße 1-5
D-34454 Bad Arolsen
Tel.: +49 5691 87741-200
Fax: +49 5691 87741-281
E-Mail: support@opertis.de

Up-to-date status of the information

All details on the product, images, dimensions and models correspond to the status at the time the product is delivered. We reserve the right to make changes due to technical progress and the resulting continuous improvement process to which our products are subjected.

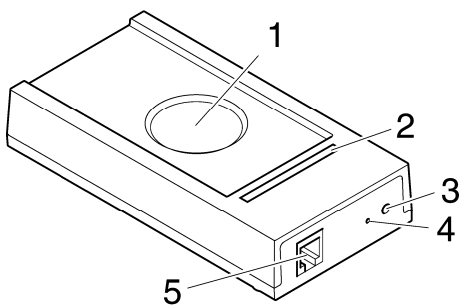
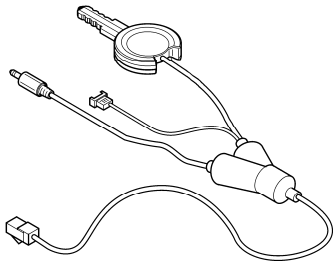
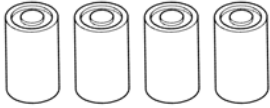


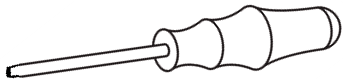

The current version of these instructions and further information is also available on our internet site www.opertis.de.

Dated 02/2014

2 Product Description

Included in delivery

The case is supplied with the following contents:

Part	Nomenclature
	External power supply (EPS) 1 → Contact area for identifier 2 → Signalling LEDs 3 → ON button 4 → Clear button 5 → Connection for interface cable
	ES7793 Interface cable
	4 piece 3 volt lithium-battery CR2
	3 volt lithium-battery CR-V3
	Unlocking tool
	Screwdriver
	Cover lifter

Functional principle

The external power supply (EPS) is used to supply power to fittings with completely flat batteries or fittings which, following repeated battery warnings, can no longer be actuated; see eLOCK system documentation "Battery Warnings" section.

The EPS is connected to the fitting to be opened using the interface cable supplied.

Prerequisite for opening a fitting in an eLOCK lock system with the EPS is a "taught" MASTER IT or programming IT "ADD". An identifier authorised at the fitting is placed on the EPS and the opening is started at the press of a button.

The EPS supplies the necessary supply voltage to open the fitting.

The individual steps for the external power supply are indicated visually by the signalling LEDs on the top of the EPS as well as acoustically by an internal buzzer.

Detailed information

Further information on the product is given in Section 8 "Product Specifications".

3 Intended Use

Area of use

The external power supply is designed for supplying power to electronic fittings with a flat battery in a OPERTIS lock system.

Condition of the product

The external power supply may only be used if it is in a technically perfect condition.

Independent modifications and changes to the product are not allowed.

Ambient conditions

Use in a particularly polluted environment, e.g. in aggressive gases, high humidity, in extreme temperatures or in a very dusty environment, is not allowed. If you have any questions, please contact OPERTIS Support.

Residual risk

If used properly and if the maintenance instructions are followed, this product will support your property security.

However, the following residual risk cannot be excluded:

- If the EPS or the interface cable is defective and the battery in the fitting is flat, they cannot be used to open the door.

4 Safety Instructions

The following safety instructions must be read and followed before use! OPERTIS does not accept any liability whatsoever for personal losses or injuries or damage to property caused by failure to note and follow these instructions!



WARNING

Risk of personal injuries

The tip of the screwdriver supplied is very sharp. There is a risk of cuts or stab wounds.

Use the screwdriver only to remove the masking cap of the fitting. After use, return the holder to the case.



CAUTION

Risk of locking in or out

The battery can leak and damage the EPS so that it can then no longer provide any power supply for the fitting.

Check the battery each month for correct function and replace it with a new one each year.



CAUTION

Risk of locking in or out

If there is a flat battery in the fitting the door can only be opened with an EPS or with the help of mechanical aids.

Ensure that a second fully charged battery or a power pack for the EPS is always available to ensure a power supply can be provided for the fitting.

CAUTION

Unauthorised access

Unauthorised persons can gain access with the programming IT "ADD" or the MASTER IT, an identifier authorised at the fitting and EPS.

Ensure that authorised persons only have access to the programming IT "ADD" or the MASTER IT, authorised identifiers and EPS.

CAUTION**Risk of malfunctions****Unauthorised access**

An external power supply can only be provided from the outside (profile cylinder cover without opening button) in the Comfort System. If the EPS is connected on the inside (profile cylinder cover with opening button), no external power supply is provided. Lever handles coupled in Active Power Off remain coupled until an external power supply is correctly provided. Therefore, any person has access.

The external power supply must be connected to the outside of the door.

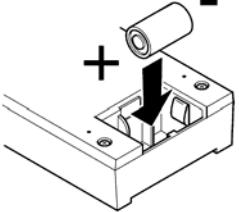
5 Use and Operation

Insert battery

Note

Note the battery type information in Section "Technical data".

Proceed as follows:

Step	Activity	Figure
1	Open the battery compartment on the rear of the EPS.	
2	Insert the battery with correct polarity (note the + and - markings).	
3	Close the battery compartment.	

Teaching in the programming IT "ADD" and MASTER IT in EPS

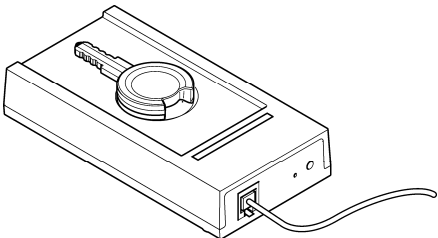
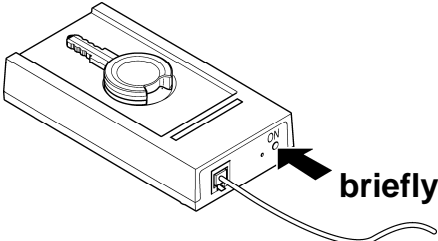
An identifier authorised at the fitting can only be used at the EPS ES7781 if a programming IT "ADD" or MASTER IT has been taught in at the EPS beforehand. Before opening a fitting with the EPS an identifier authorised at the fitting must be placed on the EPS.


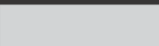
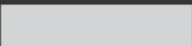





Note

An already "taught" programming IT "ADD" or MASTER IT is automatically deleted in the EPS by the teaching in of a new programming IT "ADD" or MASTER IT.





The signalling of the system states, events and possible errors is given in Section "Visual and acoustic signals".

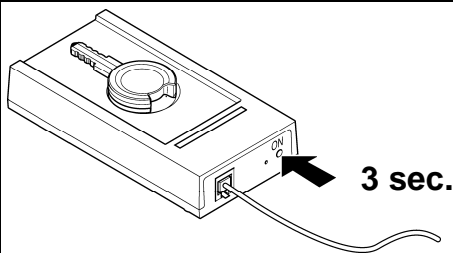



























Proceed as follows:

Step	Activity / signalling	Figure
1	Place the programming IT "ADD" or MASTER IT on the EPS.	
2a	If a programming IT "ADD" or MASTER IT has not yet been "taught" in the EPS, the teaching in process must be started by briefly pressing the ON button on the front.	

	ADD Master	System	IT	Signal tone
1				
	Place ADD/Master			
2				
	ADD/Master taught			

Signalling key:


	Long signal tone		Battery warning sound
	Short signal tone		Light flashes

Step	Activity / signalling	Figure																									
2b	If a programming IT "ADD" or MASTER IT has already been "taught" in the EPS and if this is to be replaced with a new one, the ON button must be pressed for 3 sec.																										
<table><tr><th></th><th>ADD Master</th><th>System</th><th>IT</th><th>Signal tone</th></tr><tr><td>1</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="4">Place ADD/Master</td></tr><tr><td>2</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="4">ADD/Master taught</td></tr></table>				ADD Master	System	IT	Signal tone	1				—		Place ADD/Master				2				—		ADD/Master taught			
	ADD Master	System	IT	Signal tone																							
1				—																							
	Place ADD/Master																										
2				—																							
	ADD/Master taught																										
<p>If an error occurs during the teaching in procedure it is signalled by one long and one short sound and the red flashing ADD/MASTER LED. You should then proceed as follows:</p> <ul style="list-style-type: none">○ Determine and remove the cause of the error, see Section 7 "Problems and Solutions".○ Repeat the teaching in procedure.																											
<table><tr><th></th><th>ADD Master</th><th>System</th><th>IT</th><th>Signal tone</th></tr><tr><td>9</td><td></td><td></td><td></td><td>— —</td></tr><tr><td></td><td colspan="4">ADD/Master not recognised</td></tr></table>				ADD Master	System	IT	Signal tone	9				— —		ADD/Master not recognised													
	ADD Master	System	IT	Signal tone																							
9				— —																							
	ADD/Master not recognised																										

Lost programming IT "ADD" or MASTER IT

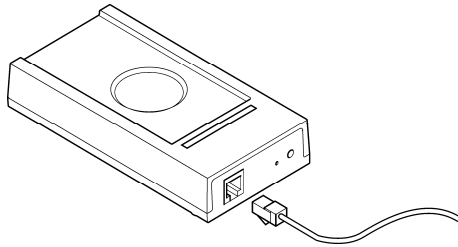
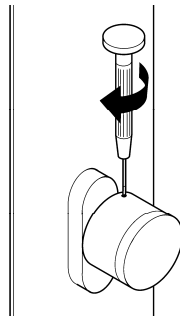
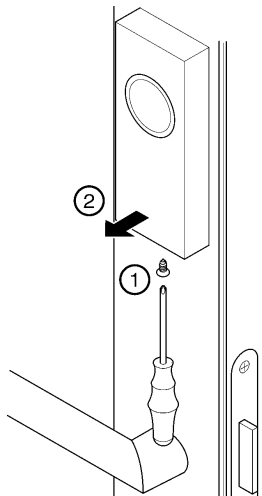
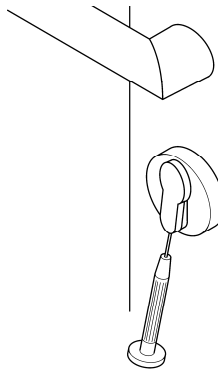
If the programming IT "ADD" or MASTER IT is lost the respective replacement IT must be taught-in in the EPS as described above.

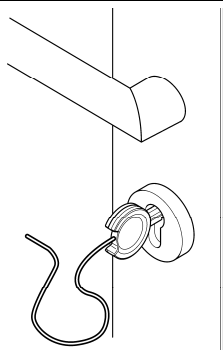
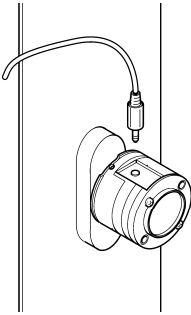
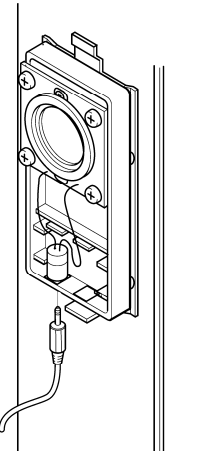
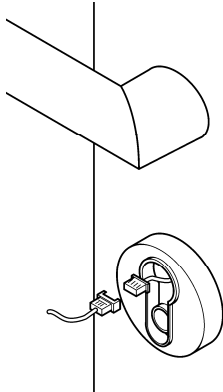
Signalling key:

—	Long signal tone	Battery warning sound
—	Short signal tone		Light flashes

Connect interface cable

Proceed as follows:

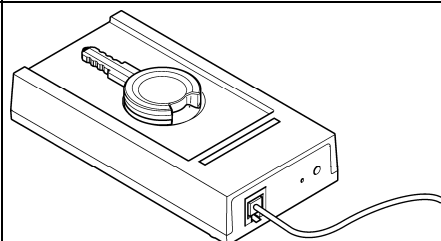
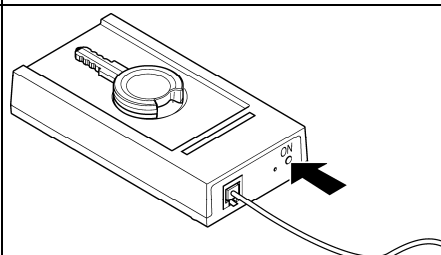
Step	Activity	Figure
3	Connect the connector of the interface cable to the EPS.	
4	<p>Double knob cylinders und half-cylinders: Use a screwdriver to open the masking cap.</p> <p>Framed door system: Use a screwdriver to open the cover.</p> <p>Comfort system, Comfort system for glass doors and APS comfot system:</p> <ul style="list-style-type: none"> ○ Use the screwdriver to carefully lever off the profile cylinder cover on the outside. ○ Carefully remove the connector from the profile cylinder cover. 	  

Step	Activity	Figure
5	<p>Lock cylinder: Insert the key of the interface cable.</p> <p>Double knob cylinder: Insert the jack plug of the interface cable.</p> <p>Framed door system: Insert the jack plug of the interface cable.</p> <p>Comfort system, Comfort system for glass doors and APS comfort system: Insert the 2-pole plug connector of the interface cable on the outside of the door.</p>	   

Power supply / carry out opening

The signalling of the system states, events and possible errors is given in Section "Visual and acoustic signals".

Proceed as follows:

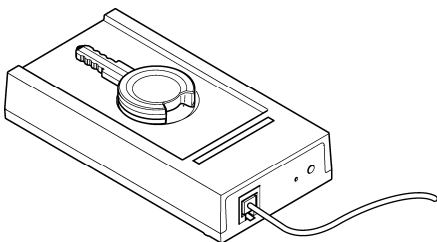
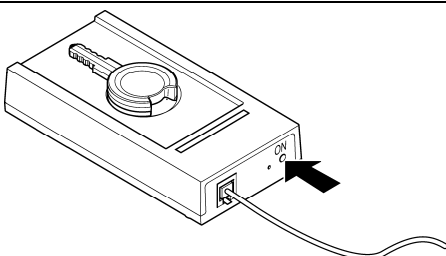




































Step	Activity	Figure																																													
6	<p>After teaching in the programming IT "ADD" or MASTER IT, place an identifier authorised for the fitting to be activated on the EPS.</p> <p>Any possibly existing time limit of the identifier is ignored</p>																																														
7	<p>Press the ON button on the front side of the EPS.</p> <p>Successful activation is signalled by a short sound and three green illuminated LEDs.</p>																																														
<table><thead><tr><th></th><th>ADD Master</th><th>System</th><th>IT</th><th>Signal tone</th></tr></thead><tbody><tr><td>3</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="3">Connect fitting</td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="3">Place IT</td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="3">Authorisation check in process</td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td>—</td></tr><tr><td></td><td colspan="3">Fitting switched on</td><td></td></tr></tbody></table>				ADD Master	System	IT	Signal tone	3				—		Connect fitting				4				—		Place IT				5				—		Authorisation check in process				6				—		Fitting switched on			
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6				—																																											
	Fitting switched on																																														
8	Open the door.																																														
9	Insert new battery in the fitting, see separate operating instructions.																																														

Signalling key:

	Long signal tone		Battery warning sound
	Short signal tone		Light flashes

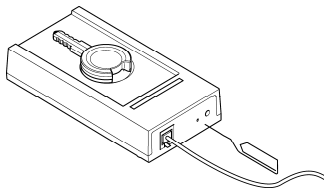
Note

The following two steps are necessary so that the fitting recognises the new inserted battery. This is not necessary for the ES7220 half-cylinder.

10	<p>After teaching in the programming IT "ADD" or MASTER IT, place an identifier authorised for the fitting to be opened on the EPS.</p> <p>Any possibly existing time limit of the identifier is ignored</p>																																														
11	<p>Press the ON button on the front side of the EPS.</p> <p>Successful activation is signalled by a short sound and three green illuminated LEDs.</p>																																														
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Delete taught in programming IT "ADD" or MASTER IT without teaching in a new IT

Proceed as follows:

Step	Activity	Figure
1	Use a pointed object, e.g. a paper clip, to press the Clear button on the front of the EPS. The deletion is signalled with a short sound.	





















Signalling key:

	Long signal tone		Battery warning sound
	Short signal tone		Light flashes

Visual and acoustic signals

The EPS emits acoustic and visual signals for certain system states and events.

The following diagrams show the complete visual and acoustic signals. They are also located on the back of the external power supply (EPS).

	ADD Master	System	IT	Signal tone
1				—
	Place ADD/Master			
2				—
	ADD/Master taught			
3				—
	Connect fitting			
4				—
	Place IT			
5				—
	Authorisation check in process			
6				—
	Fitting switched on			
7				— —
	Change battery			
8				—
	IT not authorised at the fitting			
9				— —
	ADD/Master not recognised			
10				— — —
	Fault in the fitting			
11				— — — —
	Fitting 30 sec. without response			
12				— — — —
	IT not placed for 30 sec.			
13				— — — — —
	Fitting does not belong to property			
14				— — — — —
	IT does not belong to property			
	—	Long signal tone	 Battery warning sound
	—	Short signal tone		 Light flashes

6 Servicing, Cleaning and Maintenance

The servicing, cleaning and maintenance may be carried out by qualified personnel only.

Warranty cover is excluded for damage caused by improper handling.

Servicing

The external power supply (EPS) requires no servicing.

Cleaning and maintenance



CAUTION

Risk of personal injuries

The information transfer from the external power supply (EPS) to the fittings takes place via the EPS interface cable. Heavy soiling or liquids such as water or oils can prevent communication so that it is possible for people to be locked in or out. Check the interface cable for dirt regularly and if necessary clean.

CAUTION

Damage to property due to incorrect cleaning

Incorrect cleaning can cause the surfaces to be attacked and damaged:

- Do not use any alkali or acidic cleaning agents or cleaning agents containing chlorine.
- Do not use cleaning agents with scouring additives.
- Do not use scouring instruments, e.g. brushes.

Proceed as follows:

Step	Activity	Figure
1	Wipe surfaces with a damp cloth.	

7 Problems and Solutions

Problem	Possible cause	Solution
External power supply (EPS) does not perform any activation.	EPS battery is flat or defective.	Change battery.
	Foreign body in keyway (lock cylinder only).	Remove foreign body.
	Programming IT "ADD" or MASTER IT not taught in	Teach in the programming IT "ADD" or MASTER IT
	Programming IT "ADD" or MASTER IT does not belong to the property	Use the programming IT "ADD" or MASTER IT of the correct property
	Identifier is not programmed or does not have the necessary authorisations.	Program identifier, see eLOCK system documentation software.
	Fitting cable is defective.	Replace fitting cable.
	Fitting cable is not connected.	Connect fitting cable.
	EPS is defective.	Replace EPS.
The programming IT "ADD" or MASTER IT cannot be taught in.	Fitting is defective.	Replace fitting.
	The IT placed on the EPS is not a programming IT "ADD" or MASTER IT.	Place a programming IT "ADD" or MASTER IT on the EPS.
	Programming IT "ADD" or MASTER IT is defective.	Replace the programming IT "ADD" or MASTER IT.
Fitting does not respond after battery change or signals a flat battery.	EPS is defective.	Replace EPS.
	Fitting has not recognised the new battery.	Repeat Steps 10 and 11.
	Flat battery inserted in fitting.	Insert fully charged battery in fitting.

Further errors and the corresponding error messages are listed in the "Visual and Acoustic Signals" section.

8 Product Specifications

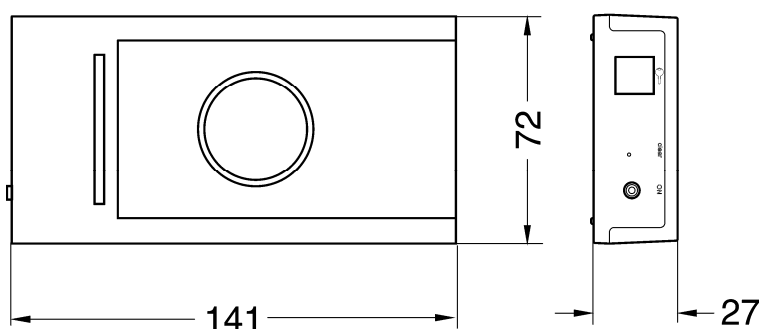
Declaration of conformity

OPERTIS GmbH herewith declares that the External Power Supply (EPS) fulfils the basic standards and other relevant specifications of the 1999/5/EG and 2011/65/EU directives and that they are CE compliant.

A copy of the statement of conformity can be ordered from the OPERTIS Support.

Dimensions

All dimensions are given in mm.



Technical data

Housing

Colour	black
Material	ABS plastic

Specific data

Supply voltage	3 volt lithium battery CR2 OPERTIS Art. No: ES0891
Operating and storage temperature	+15 °C to +45 °C Note The external power supply must be stored at room temperature.
Air humidity for operation and storage	max. 95 % non-condensing
Degree of protection according to EN 60529	IP41
Class of protection according to DIN EN 61140	III (safety extra-low voltage)

9 Disposal

Product



Disposal in accordance with WEEE Directive 2012/19/EU:

- Do not dispose of product by throwing it in the local household waste.
- Return product to OPERTIS or dispose of at a municipal collection point for hazardous electrical wastes.

Batteries



- Do not dispose of batteries in the local household waste but instead hand them in to public battery collection points.
- Do not throw batteries into a fire.
- Do not store used batteries together.
- Dispose of batteries only if they are discharged.

Product packaging

Dispose of the product packaging in the local household and paper waste disposal system.



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